

November 5, 2015

Mr. Christopher Bonsignore, P.E. Principal Engineer Environmental Compliance Section Bureau of Engineering and Highway Operations State of Connecticut Department of Transportation 2800 Berlin Turnpike, P.O. Box 317546 Newington, CT 06131-7546

Attention:

Adam Fox, P.E. / Roger Levesque, P.E.

Subject:

On-Call Asbestos, Lead, Air Quality & Demolition Compliance

Agreement No. 08.24-03(11)

HazMat Inspection - Bridge No. 03093, I-91 over Quinnipiac River/North Front Street,

New Haven, CT

ConnDOT Assignment No. 504-5040

ConnDOT Project No. 92-668

TRC Project No. 183572.5040.00710

Dear Mr. Bonsignore:

TRC performed a limited survey for hazardous building materials associated with the planned rehabilitation of Bridge No. 03093 in New Haven, Connecticut. Results of the survey identified lead paint to be present on the structural steel/metal bridge components (16.0-19.7 mg/cm²) of Bridge No. 03093. Results obtained from TCLP waste stream sampling and analysis for leachable lead on the structural steel and metal bridge surfaces, characterized the paint waste stream at Bridge No. 03093 as EPA RCRA/CTDEEP hazardous waste (57 mg/l). No suspect asbestos containing materials were identified in accessible areas of the bridge. Bird/pigeon guano accumulations were identified on the beams and underside of Bridge No. 03093. Associated laboratory data is attached.

If you have any questions, please call TRC at (860) 298-9692.

Very Truly Yours,

TRC

Find RM.
Erik R. Plimpton, P.E., CHMM

Program Manager

E. Burke, P.E.

Engineer in Charge

	-			Lead Based Paint Measurement Summary Table	Paint Mea	surement	Summan	/ Table					
			-										
Device(s): Nit	ton XLP3	01-A (Serial #24792)	Device(s): Niton XLP301-A (Serial #24792) X Ray Fluorescence (XRF) Spectrum Analyzer	RF) Spectrum	Analyzer								
Site: CT	T DOT - B	CT DOT - Bridge No. 03093, New Haven, CT	w Haven, CT				***************************************						
Project #: 183572.5040.0710	3572.5040	0.0710											
Date(s): 9/1	9/15/2014	-											
Inspector: Joi	nathan G	Inspector: Jonathan Gentile (CT License No. 002125)	No. 002125)										
Number	Interior/	Location	Bridge #	Structure	Feature	Material	Color	Condition	Reading Precision	Precision	Depth	Duration	Date/Time
Ш	Exterior								(mg/cm2) (mg/cm2)	(mg/cm2)	Index	(sec)	
-			Self Calibration									102.7	9/15/2014 9:56
2			0.0 Calibration						0.0	0.0	1.0	4.3	9/15/2014 9:59
က			1.6 Calibration						1.5	0.1	1.1	10.4	9/15/2014 9:59
4			3.5 Calibration						3.6	0.3	1.3	7.4	9/15/2014 9:59
	Exterior	New Haven	Bridge 03093	l-beam		Metal	Grey	Defective	16.0	2.1	2.0	9.9	9/15/2014 10:22
9	Exterior	New Haven	Bridge 03093	i-beam		Metal	Grey	Defective	19.1	2.2	2.1	9.9	9/15/2014 10:22
	Exterior	New Haven	Bridge 03093	l-beam	Small	Metal	Lt Grey	Intact	0.0	0.0	1.0	6.9	9/15/2014 10:23
-	Exterior	New Haven	Bridge 03093	l-beam	Support	Metal	Lt Grey	Intact	0.0	0.0	1.0	8.9	9/15/2014 10:24
	Exterior	New Haven	Bridge 03093	I-beam		Metal	Grey	Defective	19.7	2.4	2.1	6.2	9/15/2014 10:25
	Exterior	New Haven	Bridge 03093	L-beam		Metal	Lt Grey	Intact	0.0	0.0	6.2	7.4	9/15/2014 10:26
-	Exterior	New Haven	Bridge 03093	L-beam		Metal	Lt Grey	Intact	0.0	0.0	1.0	3.1	9/15/2014 10:27
-	Exterior	New Haven	Bridge 03093	l-beam		Metai	Dk Grey	Intact	0.0	0.0	4.0	5.8	9/15/2014 11:16
	Exterior	New Haven	Bridge 03093	l-beam		Metal	Dk Grey	Intact	0.0	0.0	1.5	7.3	9/15/2014 11:16
14			0.0 Calibration						0.0	0.0	1.0	4.3	9/15/2014 11:32
15			1.6 Calibration						1.4	0.1	1.1	8.1	9/15/2014 11:32
16			3.5 Calibration						3.6	0.2	13	11.6	9/15/2014 11:32

80 Lupes Drive Stratford, CT 06615



Tel: (203) 377-9984 Fax: (203) 377-9952 e-mail: cet1@cetlabs.com

Client:

Mr. Jonathan Gentile

TRC Environmental Consultants

21 Griffin Rd., North Windsor, CT 06095

Analytical Report CET# 4090425

Report Date: September 19, 2014

Project: CTDOT, Bridge 3093, New Haven

Project Number: 183572.5040.0710

Connecticut Laboratory Certificate: PH 0116 Massachussetts laboratory Certificate.: M-CT903



New York Certification: 11982 Rhode Island Certification: 199 CET #:4090425

Project: CTDOT, Bridge 3093, New Haven Project Number: 183572.5040.0710

SAMPLE SUMMARY

The sample(s) were received at 13.2°C.

This report contains analytical data associated with following samples only.

Sample ID	Laboratory ID	Matrix	Collection Date/Time	Receipt Date
01	4090425-01	Paint Chip	9/15/2014 10:00	09/16/2014
02	4090425-02	Paint Chip	9/15/2014 10:40	09/16/2014

Analyte: Total Lead [EPA 6010C]

Analyst: SS

Prep: EPA 3050B

Matrix: Paint Chip

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4090425-02	02	ND	0.10	%	1	B4I1836	09/18/2014	09/18/2014 22:17	

Analyte: TCLP Lead [EPA 6020A]

Analyst: SS

Prep: EPA 3005A-1311

Matrix: Extract

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4090425-01	01	57	0.013	mg/L	1	B4I1841	09/18/2014	09/18/2014 22:07	v 141 (7

CET #:4090425

Project: CTDOT, Bridge 3093, New Haven

Project Number: 183572.5040.0710

Questions related to this report should be directed to David Ditta, Timothy Fusco, or Robert Blake at 203-377-9984.

Sincerely,

David Ditta Laboratory Director

Report Comments:

Sample Result Flags:

- E- The result is estimated, above the calibration range.
- H- The surrogate recovery is above the control limits.
- L- The surrogate recovery is below the control limits.
- B- The compound was detected in the laboratory blank.
- P- The Relative Percent Difference (RPD) of dual column analyses exceeds 40%.
- D- The RPD between the sample and the sample duplicate is high. Sample Homogenity may be a problem.
- +- The Surrogate was diluted out.
- *C1- The Continuing Calibration did not meet method specifications and was biased low for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased low.
- *C2- The Continuing Calibration did not meet method specifications and was biased high for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased high.
- *F1- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the low side.
- *F2- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the high side.
- I- The Analyte exceeds %RSD limits for the Initial Calibration. This is a non-directional bias.

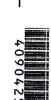
All results met standard operating procedures unless indicated by a data qualifier next to a sample result, or a narration in the QC report.

Complete Environmental Testing is only responsible for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt.

ND is None Detected at the specified detection limit

All analyses were performed in house unless a Reference Laboratory is listed.

Samples will be disposed of 30 days after the report date.



21 GRIFFIN ROAD NORTH

TCLP CHAIN OF CUSTODY

Edition: November 2013 Supersede Previous Edition

									01 9	SAMPLE DA		100	INSPECTOR: (SIGNATURE)	183572,5040.0710	PROJECT NUMBER	TELEPHONE (860) 298-9692 FAX (860) 298-6380	WINDSOR, CONNECTICUT 06095	21 GRUFFIN KOAD NORTH
	Relimnished by: (Sionature)							-	9/15/14 1000	DATE TIME			NATURE)	040.0710	***************************************) 298-9692	ECTICUT 0609:	MONTH
Date: Re	<u> </u>	,						$\overline{}$	X ilindur	GRAB	TYPE	J. Gentile	(PRINTED)	Now T	PROJECT NAME			
Repeired by: (Signanus)	reined by (Sionature)					-		ه.	Underside of Bridge	SAMPLE LOCATION		rile M. Strwart		New Haven, CT	NAME AND A ROSA		TCLP CHAIN OF CUSTODY	
m	21									RCRA I	RA Pb. A		R,		-			
Relinquished by: (Signature)	?elinguishe		$\left\ \cdot \right\ $	\dashv	-		 			8 RCI	CD			1 2000	LV ανα.			
clinquished by: (Sign	d by: (Sign		$\dagger \dagger$	1	1				ア		CLP				SALLAMVAVA		X	
nature)	nature)					-					LP				, ,			
Date: Received by: (Signature)								X Newer De Grey Replacement Paint	Old Gray I Beam Paint	Total	MATERIAL	0		48hr 3day	TURNAROUND LIME 24hr X 48hr 3day 5day	LAB ID #.		

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